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PCT

NOTIFICATION DE TRANSMISSION DE COPIES DE LA TRADUCTION DU RAPPORT D'EXAMEN PRELIMINAIRE INTERNATIONAL SUR LA BREVETABILITE (CHAPITRE I OU CHAPITRE II DU TRAITE DE COOPERATION EN MATIERE DE BREVETS)

(règle 72.2 du PCT)

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MAILLET, Alain Cabinet Le Guen Maillet 5, place Newquay Boîte postale 70250 F-35802 Dinard Cedex FRANCE

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Référence du dossier du déposant ou du mandataire 8894P	NOTIFICATION IMPORTANTE
Demande internationale n° PCT/FR2003/003803	Date du dépôt international (jour/mois/année) 19 décembre 2003 (19.12.2003)

SAGEM S.A. etc

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Fonctionnaire autorisé

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

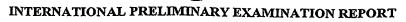
ala.	PCT
Anslation internation	IONAL PRELIMINARY EXAMINATION REPORT
	(PCT Article 36 and Rule 70)
Applicant's or agent's file reference 8894P	FOR FURTHER ACTION See Notification of Transmittal of Internet Preliminary Examination Report (Form PCT/IPE
International application No. PCT/FR2003/003803	International filing date (day/month/year) Priority date (day/month/year) 19 décembre 2003 (19.12.2003) 20 décembre 2002 (20.12.2
International Patent Classification (IPC) or r G06K 9/00	national classification and IPC
Applicant	SAGEM S.A.
This report is also accompan amended and are the basis fo 70.16 and Section 607 of the	sheets, including this cover sheet. nied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have this report and/or sheets containing rectifications made before this Authority (see Administrative Instructions under the PCT). otal of sheets.
<u></u>	of opinion with regard to novelty, inventive step and industrial applicability
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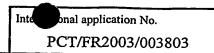


Internal application No.

PCT/FR2003/003803

I.	Basi	is of the r	report .	-
1.	Wit	h regard to	to the elements of the international application:*	
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3.	Wit	the langer	inguage of a translation furnished for the purposes of international search (under Rule 23.1(b)). Inguage of publication of the international application (under Rule 48.3(b)). Inguage of the translation furnished for the purposes of international preliminary examination (under Rule 48.3(b)).	the international
			statement that the information recorded in computer readable form is identical to the written se furnished.	quence listing has
4.			the claims, Nos the drawings, sheets/fig	
5.			eport has been established as if (some of) the amendments had not been made, since they have bee d the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	n considered to go
*	in t		t sheets which have been furnished to the receiving Office in response to an invitation under Article ort as "originally filed" and are not annexed to this report since they do not contain amend	
**	Any	replacem	ment sheet containing such amendments must be referred to under item 1 and annexed to this report.	





III. Non-	establishment of opinion with regard to novelty, inventive step and industrial applicability
1. The condust	questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be rially applicable have not been examined in respect of:
	the entire international application.
\boxtimes	claims Nos. 1-5
becaus	se:
\boxtimes .	the said international application, or the said claims Nos. 1-5 relate to the following subject matter which does not require an international preliminary examination (specify):
S	ee separate sheet
	•
	the description, claims or drawings (indicate particular elements below) or said claims Nosare so unclear that no meaningful opinion could be formed (specify):
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.
	no international search report has been established for said claims Nos
2. A mear	ningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid ace listing to comply with the standard provided for in Annex C of the Administrative Instructions:
	the written form has not been furnished or does not comply with the standard.
	the computer readable form has not been furnished or does not comply with the standard.

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: III.

- 1. The International Preliminary Examining Authority considers that claims 1 to 5 of the international application relate to subject matter on which it is not required, under PCT Article 34(4)(a)(i) and 34(4)(b), to carry out an international preliminary examination and has accordingly decided not to carry out such examination on said claims in their present form.
- 1.1 The subject matter of the claims relates to a human activity (PCT Rule 67.1(iii)).
- 1.1.1 It has not been specified that the method is carried out by a device such as a computer.
- 1.1.2 The alleged invention, considered as a whole, relates to a method for determining whether a finger is live, i.e. a method which could be carried out by a human being who, after having performed measurements, would use his or her brain to perform analytical calculations on the basis of said measurements.
- 1.1.3 The method does not provide a practical application having a useful, concrete and tangible result (PCT International Search and Preliminary Examination Guidelines, 25 March 2004, "Appendix to Chapter 9", A9.07[1]).

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Statement			
Novelty (N)	Claims		YES
	Claims	6-10	NO
Inventive step (IS)	Claims		YES
	Claims	6-10	NO
Industrial applicability (IA)	Claims	6-10	YES
	Claims		NO

2. Citations and explanations

- 1. Reference is made to the following documents:
 - D1: EP-A-1 187 056 (ST MICROELECTRONICS INC) 13
 March 2002 (2002-03-13)
 - D2: US-B-6 314 1951 (FUKUZUMI SHINICHI) 6 November 2001 (2001-11-06)
 - D3: TARTAGNI M ET AL: "A 390 dpi live fingerprint imager based on feedback capacitive sensing scheme" SOLID-STATE CIRCUITS CONFERENCE, 1997.

 DIGEST OF TECHNICAL PAPERS. 43RD ISSCC., 1997

 IEEE INTERNATIONAL SAN FRANCISCO, CA, USA 6-8

 FEB. 1997, NEW YORK, NY, USA, IEEE, US, 6

 February 1997 (1997-02-06), pages 200-201, 456, XP010218978 ISBN: 0-7803-3721-2
 - D4: WO 97/14111 A (KALLO PETER; KISS IMRE (HU);
 TALOSI JANOS (HU); PODMANICZKY ANDRAS) 17 April
 1997 (1997-04-17)
 - D5: EP-A-1 187 057 (ST MICROELECTRONICS INC) 13
 March 2002 (2002-03-13)
 - D6: WO 02/099731 A (GRUBER KLAUS; MELZNER HANNO (DE); MARIN KENNETH E (DE); INFINEON T) 12

 December 2002 (2002-12-12)
- 2. D4 is considered to be the closest prior art.

- 3. The subject matter of independent claim 6 cannot be considered novel (PCT Article 33(2)).
- 3.1 D4 describes (see page 8, line 28 to page 9, line 7 of the description and figure 8) a fingerprint sensor for determining whether a fingerprint-bearing object is live, characterised in that it comprises at least three electrodes for performing paired impedance measurements (see the eight electrodes (17) in figure 8). Therefore, the features in claim 6 are disclosed in D4.
- 4. The subject matter of claims 7 to 10 does not add anything novel to the subject matter of claim 6.
- 4.1 This subject matter is disclosed in D4 (figure 8).

Additional observations

- i. Claims 6 to 10 do not define the subject matter for which protection is sought (PCT Article 6).
- i.1 The invention requires not only impedance measurements but also a measurement of the electrode surface area covered by the finger (description, page 2, second paragraph).
- i.2 This can be resolved by incorporating the features of claim 11 into claim 6. This would also solve the problem of lack of novelty mentioned above under point 3.